

THE

Thurrock Urban District Council



ANNUAL REPORT

OF THE

Medical Officer of Health

INCLUDING THE REPORT OF THE

Chief Sanitary Inspector

For the Year 1945

GRAYS.

HIGGINS LTD., PRINTING CONTRACTORS

1947.

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URBAN DISTRICT OF THURROCK.

PUBLIC HEALTH OFFICERS OF THE AUTHORITY.

*Medical Officer of Health
and Medical Superintendent, Thurrock Hospital:*

W. T. G. BOUL, M.B.E., M.D., D.P.H., F.Z.S.

*Deputy Medical Officer of Health
and Deputy Medical Superintendent, Thurrock Hospital:*

J. T. BROWN, M.B., Ch.B., D.P.H., D.P.A.

Assistant Medical Officer of Health:

D. C. ADAM, M.B., Ch.B., D.P.H.

(Appointed 5th February, 1945).

Assistant Medical Superintendent, Thurrock Hospital (part time):

J. D. MURRAY, M.D.

Matron, Thurrock Hospital: Miss E. D. DAVIS (1, 2, 3)

Health Visitors:

Miss E. DARRALL (1, 2, 3, 4)

„ J. EVE (1, 2, 3, 4)
(Resigned 4th March, 1945).

„ J. GABRIELSEN (1, 2, 3, 4)
(Resigned 14th February, 1945).

„ I. GIBSON

„ W. J. LUXMOORE (1, 2, 3)

Miss M. HUGHES (1, 2, 3, 4)

„ C. LANCEFIELD (1, 2, 3, 4)

„ E. MARSHALL (1, 2, 3, 4)

„ E. C. MILLER (1, 2, 3, 4)

„ A. POLLEY (1, 2, 3)

1. General Trained;

2. Certified Midwife;

3. State Registered;

4. New Health Visitors' Certificate.

Orthopædic Masseuse:

Miss M. E. WELLS, C.S.M.M.G. & M.E.

Matrons, War-time Day Nurseries :

Nursery No. 1 : Mrs. E. BROWN, S.R.N.

„ „ 2: Mrs. M. KEELEY

„ „ 3: Miss F. HARDWICK

Chief Sanitary Inspector : L. CULLISS (1, 2, 3)

Officer under Rats and Mice Destruction Act, 1919. Inspector under Shops Acts.

Deputy Chief Sanitary Inspector :

H. A. GOSLING (1, 2, 3)

Sanitary Inspectors :

R. A. BULL (1, 2, 3)

A. E. NETTING (1, 2)

(Resigned April, 1945).

E. H. WADHAMS (1, 2, 3), (*H.M. Forces*).

(Resigned September, 1945).

N. H. READ (Appointed July, 1945).

(Died February, 1946).

1. Indicates Certificate, Royal Sanitary Institute ; 2. Certificate, Inspection of Meat and other Foods ; 3. Certificate, Smoke Inspection.

Chief Clerk : R. C. GILBERT (*H.M. Forces*).

Deputy Chief Clerk : R. L. BROWN (*H.M. Forces*).

Clerk, Thurrock Hospital : C. M. ANSELL.

Clerical Assistants :

Mrs. D. SAYERS

*Miss I. Crooks

R. THOMPSON, M.R.I., P.H.H.
(*H.M. Forces*)

Mrs. E. BROWNE

(Appointed 5th November, 1945).

L. DANSIE (*H.M. Forces*)

Mrs. G. MILES

(Civil Defence duties only)

*Mrs. F. A. JONES
(Resigned December, 1945).

(Resigned June, 1945).

Mrs. H. SMITH

Miss E. M. SMITH

Mrs. V. DAVID (*part time*)

*Temporary staff replacing members in *H.M. Forces*.

Mortuary Attendant : F. J. COSBY.

All the medical staff hold joint appointments as Assistant County Medical Officers to Essex County Council. The services of the Health Visitors are shared with Essex County Council as School Nurses.

THURROCK URBAN DISTRICT COUNCIL

PUBLIC HEALTH DEPARTMENT,
COUNCIL OFFICES,
GRAYS, ESSEX.

TO THE CHAIRMAN AND MEMBERS OF THE
THURROCK URBAN DISTRICT COUNCIL.

Ladies and Gentlemen,

I beg to present my Annual Report for the year 1945, and my twenty-first Annual Report for the district as a whole. It will be observed that with the conclusion of hostilities, the report is upon a somewhat larger scale than heretofore, and includes certain statistics as to the wartime activities of the Hospitals of the district.

Despite the conclusion of hostilities, many difficulties remain in maintaining essential Public Health services, especially in the provision of equipment and buildings.

The re-organisation of the Thurrock Hospital to re-open for the reception of patients suffering from tuberculosis should be noted, and the extension made during the year to the Civil Ambulance Service.

I am very much indebted to the whole of the members of the staff of the Public Health Department and should wish to place on record, for the information of the Council, my appreciation of the work they have carried out during the year under review. I should also like to place on record my gratitude for the continued support of members of the Council, and officials of other departments.

I am,

Your obedient servant,

W. T. G. BOUL,
Medical Officer of Health.

STATISTICS AND SOCIAL CONDITIONS OF THE AREA.

Land Area (in acres)	..	...	... 40,601
Product of 1d. Rate	...	...	£1,858 0 6

EXTRACTS FROM VITAL STATISTICS.

	Thurrock	England & Wales
Birth Rate per 1000 estimated resident population ...	19.0	16.1
Death Rate per 1,000 estimated resident population ...	10.5	11.4
Death Rate of Infants under one year of age ...	44.9	46
Deaths from Suicide ...	3	
„ „ Road Traffic Accidents	12	
„ „ other violent causes	9	

(d) CLINICS AND TREATMENT CENTRES.

CLINIC.	ADDRESS.	SESSIONS.	REMARKS.
Maternity and Child Welfare	Aveley—Old Aid Post ...	Alternate Fridays, 2—3.45 p.m.	Dried Milk, Foods, &c., sold at all sessions.
	Bulphan—Henderson's Hut Lower Duntou Road	2nd & 4th Tuesdays, 2 p.m.	
	Chadwell-St.-Mary— Welfare Centre, River View ...	Every Tuesday & Wednesday, 2 p.m.	
	Corringham—Rectory, Church Rd,	Every Wednesday, 2 p.m.	
	Grays—Welfare Centre, The Park	Every Tues., Wed. & Thurs., 2 p.m.	
	Horndon—Methodist Church Hall	1st & 3rd Fridays, 2 p.m.	
	Little Thurrock—Baptist Church Hall, Lodge Lane ...	Every Monday and Thursday, 2 p.m.	
	Linford—Community House, Bata Shoe Co. Ltd., E. Tilbury	Every Wednesday, 2 p.m.	
	Orsett—The Institute ...	1st & 3rd Tuesdays, 2 p.m.	
	Purfleet & West Thurrock Welfare Centre, London Road	Every Tues. & Wed., 1.30 p.m.—4 p.m.	
	Stanford—St. Margaret's Hall ...	Every Thursday, 2 p.m.	
	South Ockendon—Congregational School Room ...	Alternate Fridays, 2 p.m.—3.30 p.m.	
	Tilbury—Welfare Centre ...	Every Tuesday & Thursday, 1.30 p.m.	

CLINICS AND TREATMENT CENTRES—continued

Ante-Natal	Grays	...	...	Every Monday, 9 a.m. Every Thursday, 9 a.m. Every Tuesday, 9.15 a.m. Every Monday, 2 p.m. Every Wednesday, 1.45 p.m. Alternate Wednesdays, 10—12 noon Alternate Fridays, 9 a.m.
Post-Natal	Grays—Welfare Centre	...	...	...
Ante-Natal and Post-Natal Exercises	Grays—Welfare Centre	...	...	Every Friday afternoon, 3.30
Scabies Clinics	Thurrock Hospital, Stifford Long Lane, Grays	...	...	Monday to Friday, 2 p.m. Afternoons Monday to Friday, 9 a.m. Mornings
Women's Welfare (Birth Control)	Lausdowne Road School, Tilbury	...	...	3rd Friday each month at 5 p.m.
Orthopædic	Grays—See <i>Ante-Natal</i> above	...	...	...
(a) Diagnosis	Grays—Glasson House, High Street	...	...	By Appointment (Til. 555)
(b) After-Care	Grays—See above	...	...	Every Friday, 9.30—12 noon and 2—4.30 p.m. 2nd & 4th Monday, 2—4.30 p.m.
Tuberculosis Dispensary	Thurrock Hospital	...	...	Monday, Wednesday, Friday, 10—12 Provided by Essex County Council.

Clinic held jointly by Essex County Council & Thurrock U.D.C.

CLINICS AND TREATMENT CENTRES—continued

CLINIC.	ADDRESS.	SESSIONS.	REMARKS.
School Clinics	Grays—Glasson House, High Street Tilbury—Welfare Centre Aveley—Secondary School " Junior School Stanford—Council School	Minor Ailments, Daily 9 a.m., except Tues. Inspections, every Wed., 9.30 Minor Ailments—Tues. & Fri, 9 a.m. Inspections—Friday, 9 a.m. Tuesday, 10 a.m. Friday, 10 a.m. Minor Ailments—Mon. & Thur. 9 a.m. Inspections—1st Thursday, 9 a.m.	Provided by Essex County Council. Closed during School holidays.
Eye Clinic	Grays—Glasson House, High Street	Every Monday, 10—12	Provided by Essex C.C. Closed during School holidays. Refractions by appointment only.
Dental Clinic	Grays—Glasson House	Daily Consultations—Thursdays 10.30-noon	Provided by Essex C.C. Closed during School holidays. All treatment by appointment only.
Venereal Diseases	Gravesend—22 Cobham Street	Monday, Wednesday and Friday: Women, 9 to 12 noon, 2 to 4 p.m.; Men, 6 p.m. to 7 p.m. Tuesday: Men, 10.30 a.m. to 12.30; 6 to 7 p.m.; Women, 1 to 2 p.m. Thursday: Women, 2 to 3.45 p.m.; Men, 3.45 to 5 p.m. Saturday: Women, 9.30 to 12 noon; Men, 1 to 2 p.m.	Provided by Kent County Council. Essex patients may attend free of charge.
Diphtheria Immunisation Clinic	Grays—Welfare Centre, The Park Tilbury—See Welfare Centre Stanford—See Welfare Centre	Every Friday, 2 p.m. Every 3rd Friday, 2 p.m. 3rd Monday, 10 a.m.	Patients seen by appointment only.
Ultra Violet Light Clinic.	Grays—Welfare Centre, The Park	Every Monday, 2 p.m. Every Wednesday, 9.30 a.m. Every Friday, 9.30 a.m.	Patients seen by appointment only.

SECTION B.

GENERAL PROVISION OF HEALTH SERVICES
IN THE AREA.

1. (i) PUBLIC HEALTH OFFICERS OF THE LOCAL AUTHORITY.

These are set out at the commencement of this Report.

(ii) (a) LABORATORY FACILITIES.

The District is now supplied, under the Bacteriological Service for this area, at St. Andrew's Hospital, Billericay.

The services, which are available, cover those which are normally provided by a Pathological Department.

(ii) (b) AMBULANCE SERVICE (Phone: Tilbury 2000 and 2828).

The facilities offered by the Thurrock Council's Service are proceeding according to plan.

2,030 patients made use of the facilities available, 38,511 miles being covered.

(ii) (c) NURSING IN THE HOME.

There are within the district eight Nursing Associations serving South Ockendon, Aveley, Purfleet, West Thurrock, Grays, Stifford, Little Thurrock, Chadwell-St.-Mary, Tilbury, Stanford-le-Hope and Bulphan. In addition, the Grays Medical Comforts Committee continued its useful work during the year.

(ii) (e) HOSPITALS—PUBLIC AND VOLUNTARY.

The following hospitals exist in the Urban District: Seamen's Hospital, Tilbury (general); Orsett Lodge Hospital (Essex County Council and general); Thurrock Hospital (infectious diseases and tuberculosis).

Thurrock I.D. and E.M.S. Hospital (Infectious Diseases only).

The following tables show the admissions and discharges during 1945.

		In Hospital Jan. 1st	Admitted	Discharged	Deaths	Remaining in Hospital
Scarlet Fever	...	6	61	56	—	11
Diphtheria ...	...	3	42	42	2	1
Pneumonia ...	...	3	95	77	12	9
Meningitis ...	...	—	10	8	1	1
Erysipelas ...	...	—	8	7	—	—
Impetigo ...	...	1	4	5	—	—
Streptococcal Infection...	...	4	48	51	—	1
Mumps ...	...	—	7	7	—	—
Typhoid ...	...	—	6	6	—	—
Measles ...	...	—	23	23	—	—
Pemphigus ...	...	—	2	2	—	—
Chicken Pox	...	—	15	15	—	—
Scabies ...	...	1	3	4	—	—
Whooping Cough	...	—	3	3	—	—
Dysentery ...	...	—	22	22	—	—
Enteritis ...	...	1	12	11	2	—
Quinsy ...	...	—	2	4	—	—
Cervical Adenitis	...	—	1	1	—	—
Jaundice ...	...	—	2	2	—	—
Vincent's Angina	...	—	6	6	—	—
Para Typhoid	...	—	1	1	—	—
Colitis ...	...	—	2	2	—	—
Opthalmia Neonatorum	...	—	1	1	—	—
Rheumatic Fever	...	—	1	1	—	—
		19	377	357	17	23

Prior to the outbreak of the war, arrangements were made for the hospitals of the district to play their full part in the Emergency Medical Service and it was arranged that each of the three hospitals should receive Air Raid Casualties from those portions of the district adjacent to them. Nothing but praise can be given to the staffs concerned, and by courtesy of the Officers responsible, I give below certain figures as to these war-time activities.

It should be remembered that as far as possible the normal activities of the hospital were carried on.

Especially measures were taken to evacuate civilian patients at the outbreak of war, and again, especially at Orsett Lodge Hospital and Tilbury Hospital, prior to "D" Day. In the case of Orsett Lodge Hospital, an extensive blood transfusion service was built up and resulted in over 1,000 bottles of blood being collected for use in Army and Civilian Casualties.

THE SEAMEN'S HOSPITAL, TILBURY.

No. of beds allotted to E.M.S.	...	66
No. of patients admitted	...	396
New out-patients	...	1345
Re-attendances	...	4119
No. of casualties admitted on D Day +	260 from overseas	

ORSETT LODGE HOSPITAL, ORSETT.

No. of beds allotted to E.M.S.	...	268
No. of patients admitted	...	2803
No. of service admissions	...	2120
Air Raid Casualties	...	64
D Day Casualties	...	54
Other E.M.S. Admissions (bombed out, etc.)	...	565

THURROCK I.D. & E.M.S. HOSPITAL, THURROCK.

No. of beds allotted to E.M.S.	...	130
No. of Service patients admitted	...	2478
No. of Air Raid Casualties admitted	...	301
No. of Civilian patients admitted	...	879

THURROCK I.D. AND E.M.S. HOSPITAL.

AVERAGE NUMBER OF PATIENTS IN HOSPITAL IN 1945

		Thurrock I.D.	E.M.S.	San.
January	...	13	71	
February	...	18	78	
March	...	30	73	
April	...	37	5	
May	...	23	—	16
June	...	19	—	24
July	...	13	—	34
August	...	13	—	48
September	...	15	—	48
October	...	25	—	48
November	...	22	—	48
December	...	26	—	48

Cases treated on E.M.S. side of Thurrock Hospital :—
Closed on 30/4/45

No.	Patient Days	Air Raid Casualties (In patients)
216	6,544	14

Mileage covered by Hospital Van : 7,391 miles.

THURROCK SANATORIUM.

In conjunction with the Essex County Council, the Thurrock Sanatorium was opened in May, 1945, for the reception of 48 patients.

3. MATERNITY AND CHILD WELFARE.

(i) *Midwifery and Maternity Services.*

Employed by Thurrock U.D.C. ... 10 midwives
 „ „ Voluntary Nursing Associations 9 „

The following details relate to work performed by the Council's midwives :—

Confinements attended	...	...	535
Visits paid as midwives :—			
(a) ante-natal	...	...	2615
(b) post-natal	...	...	6162
Visits paid as maternity nurses :—			
(a) ante-natal	...	...	1029
(b) post-natal	...	...	2700

(ii) *Institutional provisions for Mothers and Children.*

The Council has agreements with the following hospitals for the reception of maternity patients:—

(a) suffering from complications occurring before, during or after confinement, and

(b) whose home conditions or other circumstances render hospital treatment necessary.

			ADMISSIONS
Southend Municipal Hospital, Rochford, Essex	...	...	3
Oldchurch Hospital, Romford	...	...	143
Danbury Park War Emergency Hospital, Essex	...	...	45
Rush Green Hospital, Romford (puerperal cases only)	...	...	nil
St. John's Hospital, Chelmsford	...	...	104
Thurrock I.D. and E M.S. Hospital, Grays	...	...	nil
Queen Mary's Hospital, Stratford, E.15	...	...	3
London Hospital Annexe, Brentwood	...	...	nil
L.C.C.	...	...	2
Writtle Park Hospital	...	...	8

(iii) *Health Visitors.*

These are enumerated in the list of officers at the front of this report.

VISITS PAID BY HEALTH VISITORS.			First Visits	Total Visits
To expectant mothers	...	...	203	479
To children under 1 year	...	...	1112	3989
To children aged 1-5 years	...	...	71	4083
Infant Life Protection visits...	...	...		186
Miscellaneous visits	...	...		288

WOMEN'S WELFARE CLINIC.

During the year 1945, it was not found possible to hold this clinic and arrangements were come to with a neighbouring Authority whereby patients from this district attended thereat, the Council assuming financial responsibility for all purchases.

POST NATAL CLINIC.

Sessions held ... 10 New Patients ... 14
 Total attendances ... 17
 Closed March, 1945, re-opened November, 1945.

ULTRA VIOLET LIGHT CLINIC.

Opened November, 1943.	Sessions held ...	...	263
Treatments—(a) Children	... 1444	(b) Adults	... 335

INFANT WELFARE CENTRES.

Centre	Sessions held	First Attendances		Total Attendances	
		Under 1 year	1-5 years	Under 1 year	1-5 years
Aveley	26	62	nil	656	209
Bulphan	23	11	nil	99	93
Chadwell-St.-Mary	100	78	11	1628	1489
Corringham	50	32	1	994	708
Grays	155	205	12	3918	2045
Horndon	24	10	3	145	155
Linford	41	30	8	638	538
Little Thurrock	100	140	17	3060	1420
Orsett	24	5	1	111	105
Purfleet and Thurrock combined...	98	90	8	1815	882
Stanford-le-Hope...	53	67	7	1133	579
South Ockendon	26	38	3	502	629
Tilbury	102	171	30	3101	567

ANTE-NATAL CLINICS.

CLINIC			Sessions Held	Total Attendances	New Patients
Aveley	...	...	24	318	52
Grays	...	...	51	1364	281
Little Thurrock	...	...	52	1042	167
Stanford-le-Hope	...	...	46	619	110
Tilbury	...	...	51	691	195
West Thurrock	...	...	25	365	76

(iv.) CHILD LIFE PROTECTION.

Foster Mothers on register at end of year	...	20
Infants on register at end of year...	...	19

(v.) DENTAL TREATMENT. ORTHOPAEDIC TREATMENT.

These facilities have been described fully in previous reports and no changes have occurred.

(vi.) WAR-TIME NURSERIES.

The Council maintain three War-time Nurseries: No. 1, Palmer's Avenue, Grays; No. 2, London Road, West Thurrock; No. 3, Whitehall Lane, Grays.

During the year under review the Nurseries became more popular with the public. The accommodation is as follows:—

Nursery No. 1	...	...	40
„ No. 2	...	...	50
„ No. 3	...	...	42

The average number on books at each Nursery was as follows:—

Nursery No. 1	...	...	38
Nursery No. 2	...	...	36
Nursery No. 3	...	...	34

(vii.) CLEANLINESS.

During the year under review, all steps have been taken to improve the general standard of cleanliness. Special efforts have been made by the Health Visitors in Welfare Centres, and in Home Visiting to deal with the problem, and the Council have now two special clinics available for the treatment of Scabies. The times of such clinics are outlined in a previous portion of this report.

The addresses of the clinics are at Thurrock Hospital and Lansdowne Road, Tilbury.

SANITARY CIRCUMSTANCES OF THE AREA.

Section C.

1. (i.) WATER.

The principal sources of supply have been enumerated in previous reports and no alteration in the same has occurred during the year. The Department has an arrangement with the South Essex Waterworks Company whereby the latter are notified immediately of the occurrence of any case of Typhoid Fever, in order that a sample of water may be taken from the household's supply.

(ii.) DRAINAGE AND SEWERAGE.

There was no important extension under this heading during 1945.

2. RIVERS AND STREAMS.

The principal stream in this area is the Mardyke, which rises above Bulphan and Orsett Fens and discharges into the Thames at Aveley. There are various small tidal streams near the Thames.

3. (i.) CLOSET ACCOMMODATION.

There are 519 cesspools and 681 pail closets and 2 privy middens. These are being converted as the opportunity arises.

(ii.) SANITARY INSPECTION OF THE AREA.

The following report has been furnished to me by the Chief Sanitary Inspector in accordance with Article 27 (18) of the Sanitary Officers (Outside London) Regulations, 1935.

				Visits paid
Dwelling houses	...	...	...	1871
Houses Recorded under Housing Regulations				Nil
Housing Act—Overcrowding	...		...	93
Infectious Diseases	...	...	...	445
Common Lodging Houses	...		...	2

				Visits paid
Caravans ...	...	...	...	6
Factories (Mechanical)	...	...	...	33
Factories (Non-Mechanical)	...	...	...	3
Workplaces	...	...	...	Nil
Outworkers	...	...	...	Nil
Cowsheds, Dairies and Milkshops	...	...	...	160
Fried Fish Shops	...	...	...	10
Butchers' Shops	...	...	...	26
Food Preparation Premises	...	...	...	20
Meat Inspection and Slaughterhouses	...	...	...	72
Food Inspections	...	...	...	222
Swimming Bath	...	...	...	4
Ice Cream Premises	...	...	...	12
Water Supplies	...	...	...	18
Stables, Pig Styes and Accumulations	...	...	...	40
Refuse Tips	...	...	...	4
Shops Acts. 1912—1934	...	...	...	7
Samples (Food and Drugs)	...	...	...	456
Applications for Council Houses...	...	...	...	861
Rat Suppression	...	..	...	222
Dustbins ...	...	...	...	100
Schools ...	...	...	...	4
Water Sampling	...	...	...	18
Milk (Sampling)	...	...	...	724
Rinsings (do.)	...	...	...	14
Rivers Pollution Prevention	...	...	...	Nil
Civil Defence	...	...	...	66
Miscellaneous	...	...	...	853

SMOKE ABATEMENT.

No formal action was taken during the year.

MILK PRODUCTION.

The number of milk producing farms in this district is 51.

The following improvements were effected at the various farms :—

Stalls repaired	...	...	...	1
Improved lighting	...	...	...	1
Cleanliness	...	...	...	13

Retail Dairies and Milkshops.

There are within the area 26 registered dairies as defined by the Milk and Dairies Order, 1926, and 73 registered persons who retail milk in the sealed receptacles in which it is received at the premises. In addition to the foregoing, three outside firms carry on a vehicular trade within the district.

Milk Special Designations Order, 1936-43.

Number of dealers licensed to sell :—

(a) Accredited Milk	...	...	1
(b) Tuberculin Tested Milk	...	...	9
(c) Tuberculin Tested Pasteurised	...	...	Nil
(d) Pasteurised	8

Number of dealers licensed to bottle :—

(a) Tuberculin Tested Milk	2
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Pasteurising Plants.

There is one pasteurising plant in the district with a capacity of 500 gallons per hour.

Samples (Pasteurised)

Pasteurised Milk Bacteria per ml.	Phosphatase Test Reaction under 2·3	Satisfactory
100	... 1·5 ...	Yes
200	... over 2·3 ...	„
300	... 1·5 ...	„
400	... 6·0 ..	No
300	... 2·3 ...	Yes
600	... 2·3—6·0	No
900	... 1·5 ...	Yes
1000	... 2·3 ...	„
1400	... 6·0 ...	No
1300	... 1·5 ...	Yes
1700	... 2·3 ...	„
2000	... 1·5 ...	„
2800	... 2·3 ...	„
3000	... 1·5 ...	„
3400	... 1·5—2·3	„
4000	... 1·5 ...	„
4600	... 1·5 ...	„
8200	... 6·0 ...	No
10000	... over 2·3 ...	„
14000	... 2·3 ...	Yes
10000	... 2·3 ...	„
34000	... 2·3 ...	„
41000	... 1·5 ...	„
50000	... 1·5—2·3	„
70000	... 1·5 ...	„

Each of the foregoing five unsatisfactory samples were investigated, and no specific cause could be held to be accountable.

Heat Treated.

Methylene Blue Test	Phosphatase Test	Satisfactory
Satisfactory	1·5	Yes
...	over 2·3	No
..	6·0	..
..	over 6·0	..
..	over 6·0	..
..	2·3	Yes
..	1·5	..
..	1·5—2·3	..
..	2·3	..
..	2·3—6·0	No
..	2·3	Yes
..	1·5	..
..	1·5—2·3	..
..	2·3	..
..	2·3	..
..	1·5—2·3	..
..	1·5—2·3	..
..	1·5—2·3	..
..	1·5	..
..	1·5	..
..	6·0	No

The foregoing six unsatisfactory samples of heat treated milk were taken at the request of the Ministry of Food, pursuant to their Scheme. Any remedial action will presumably be taken by the Ministry of Food.

Rinsings.

BOTTLES—	Bacterial Count per Utensil.	Satisfactory
1 pint ...	Over 5,000,000	No
1 pint ...	400	Yes
1 pint ...	45	..
1 pint ...	45	..
$\frac{1}{2}$ pint ...	27	..
$\frac{1}{2}$ pint ...	18	..
CHURNS—		
17 gallon ...	Over 5,000,000	No
10 gallon ...	Over 2,000,000	..
12 gallon ...	Over 2,000,000	..
Cooler ...	Over 57,000,000	..
Tank ...	Over 5,000,000	..
Milking pail	Over 2,000,000	..

In connection with six of the foregoing unsatisfactory Rinsing samples, on investigation it was ascertained that the trouble lay in the fact that the sterilising chest was leaking at the back, with the result that sterilising temperature was not obtained. A new sterilising chest was provided and the matter put right.

The remaining unsatisfactory sample was in respect of a churn delivered at a farm, and it was clear that the churn had been improperly sterilised. The matter was taken up with the Company concerned.

Samples (Ungraded).

Bacterial Count.	Bacillus Coli.	No. of Samples
0—50,000	Absent in 1·0 ml.	8
0—50,000	Absent in ·1 „	1
50,000—100,000	Absent in ·1 „	1
0—50,000	Absent in ·01 „	1
100,000—200,000	Absent in 0·1 „	1

All the above samples were satisfactory.

Samples (Graded).

Forty-two samples of Tuberculin Tested milk and three of Accredited milk have been taken during the year, of these eleven were unsatisfactory.

Of the foregoing, four of the unsatisfactory samples were indicated by the Analyst to be too old, so in the circumstances there is some justification in saying the samples may have been satisfactory if the analysis had been made in time. The remainder were investigated and, excepting one instance, no definite cause was discovered. The instance referred to was a concealed defect in a sterilising chest.

National Milk Testing and Advisory Scheme.

The above mentioned scheme is operated by the Essex War Agricultural Executive Committee, the Council acting as their agents.

During the year 529 samples of milk have been taken, with the undermentioned results:—

	Resazurin Disc No.		No. of Samples
Category A	6	...	130
	5½	...	0
	5	...	195
	4½	...	95
	4	...	44
Category B	3½	...	12
	3	...	4
	2½	...	6
	2	...	2
	1½	...	1
Category C	1	...	1
	½	...	6
	0	...	33
			<hr/> 529 <hr/>

Unsatisfactory samples should be followed up by the above mentioned Essex War Agricultural Executive Committee.

TUBERCULOSIS.

Milk—Biological Test. Food and Drugs Act, 1938, Section 25.

During the year 24 samples of milk were taken and submitted to the Biological Test. Of these 18 were returned negative and 4 were not determined owing to the premature death of the guinea pigs, one was broken in transit and one sample was shown to be positive. Those samples not determined for the reasons shown were repeated, with negative results. In connection with the positive sample, the Divisional Veterinary Officer was notified. The milk was pasteurised before sale to the public.

In selecting milk for samples for biological tests regard was had to whether the milk from the particular farm was retailed to the public in its raw state. Milk which was subsequently heat treated was not sampled.

Legal Proceedings.

Four prosecutions, as set out below, were undertaken during the year:—

Milk & Dairies Order, 1926—Article 31 (2).

Filling receptacles elsewhere than on registered premises. A fine of 10/- was imposed.

Food & Drugs Act, 1938—Section 21 (2).

Unlawful use of Special Designation. A fine of 10/- was imposed.

Milk & Dairies Order, 1926—Articles 21, 23, 26.

- (a) Failure to cleanse milk utensils. Fined £2.
- (b) Failure to cleanse milking stools. Fined £3.
- (c) Failure to cleanse interior and furniture of a room used for the sale of milk. Fined £1.

Milk & Dairies Order, 1926.—Article 21.

Failure to cleanse and sterilise utensils. A fine of £5 was imposed.

WATER SAMPLES.

Twelve samples of water were taken during the year from the South Essex Waterworks Company's mains and submitted for bacteriological examination, eleven were satisfactory. Two samples were also taken from the same source and submitted for chemical examination. The total hardness in one case was 36 parts per 100,000, of which 22 parts were temporary and 14 permanent. In the second instance the total hardness proved to be 27.5 parts per 100,000 of which 17.5 parts were temporary and 10 permanent.

In addition to the foregoing, one sample of water was taken from a private well. This proved to be satisfactory.

It is appreciated that Essex water is in character hard and this is no doubt in a large measure attributable to the chalky nature of the sub-soil from which the supply is derived. There is evidence that certain neighbouring Authorities are showing an interest in the possibilities of softening the local water supply and it is mooted that a deputation from the Authorities may meet with a view to discussing the aspect of the case.

Public Swimming Bath.

Five samples were taken during the season May to September, all being satisfactory.

MEAT INSPECTION.

Carcases Inspected and Condemned.

		Cattle excluding Cows	Cows	Calves	Sheep & Lambs	Pigs	Goats
Number killed	...	Nil	Nil	1	15	72	Nil
Number inspected	...	Nil	Nil	1	15	72	Nil
All diseases, except Tuberculosis whole carcasses condemned	...	Nil	Nil	Nil	1	Nil	Nil
Carcases of which some part or organ was condemned	...	Nil	Nil	Nil	1	1	Nil
Percentage of the number inspect- ed affected with disease, other than Tuberculosis ....	...	Nil	Nil	Nil	2.2	1.1	Nil
Tuberculosis only, whole car- cases condemned	...	Nil	Nil	Nil	Nil	1	Nil
Carcases of which some part or organ was condemned	...	Nil	Nil	Nil	Nil	Nil	Nil
Percentage of the number in- spected affected with Tuber- culosis ...	...	Nil	Nil	Nil	Nil	1.1	Nil

Unsound Meat Surrendered.

268lbs. of meat were confiscated.

Slaughterhouses.

There are no registered slaughterhouses in the area, but there are 16 licenced slaughterhouses. No regular slaughtering now occurs, the Government Slaughterhouses being closed since May, 1943.

Knackers' Yards.

There are two Knackers' Yards in the area. one of which is in constant use, whilst in respect of the remaining one there is no intention to date of its being put to use. In this instance, such use would contravene the Town and Country Planning (Interim Development) Act.

Slaughter of Animals Act, 1933.

A register of all licensed slaughtermen, pursuant to Section 3 (1) of the above mentioned Act is kept and the number so licensed is 18.

Miscellaneous Other Foods Surrendered.

Food	Amount	Food	Amount
Pickles	... 17 jars	Junket	... 7 bottles
Fish Paste	... 8 jars	Barley	... 4 pkts.
Flour	... 90 lbs.	Jam	... 4 jars
Jam	... 20 tins	Beef Cubes	... 400
Oat Meal	... 3 pkts.	Baking Powder	... 7 tins
Rice	... 7 lbs.	Semolina	... 275 lbs.
Dessert Mould	... 12 pkts.	Tea	... 3 lbs.
Coffee	... 6 bottles	Sugar	... 30 lbs.
Cake	... 53 lbs.	Lard	... 4 lbs.
Soup	... 25 tins	Peas	... 101 lbs.
Beans	... 159 tins	Milk	... 1180 tins
Bacon	... 279 $\frac{3}{4}$ lbs.	Margarine	... 191 $\frac{1}{2}$ lbs.
Butter	... 54 lbs.	Split Peas	... 160 lbs.
Eggs	... 201	Fish	... 554 tins
Meat	... 642 tins	Vegetables	... 12 tins
Marmalade	... 51 tins	Macaroni	... 5 lbs.
Meat	... 334 $\frac{1}{2}$ lbs.	Jellies	... 24
Soup Powder	... 1 tin	Barley Powder	... 253 tins
Wet Fish	... 1167 lbs.	Cheese	... 26 $\frac{3}{4}$ lbs.
Prunes	... 45 lbs.	Rabbits	... 2 lbs.
Egg Powder	... 7 pkts.	Sauce	... 1 bottle
Peanut Butter	... 3 jars	Dates	... 79 lbs.
Meat Paste	... 1 jar	Fruit	... 2 tins
Homogenised Food	2 tins	Dried Egg	... 14 lbs.
Sweets	... 68 lbs.	Cake Flour	... 85 lbs.
Quaker Oats	... 116 lbs.	Stew	... 34 tins
Crabs	... 224 lbs.	Whelks	... 3 bags
Mustard (prepared)	115 bottles	Meat & Vegetables	2 tins
Meat Pies	... 70	Rolled Oats	... 114 lbs.
Sausage Rusk	... 224 lbs.	Raisins	... 50 lbs.

Food & Drugs Act, 1938.

During the year the following commodities were submitted for formal analysis with the results as shown :

Article	Informal	Formal	Genuine	Not Genuine
Milk	I	96	86	I
			(10 broken in post)	
Baking powder	...	5	5	...
Bun Flour	...	I	I	...
Fish Paste	...	I	I	...
Minced beef	...	2	2	...
Brawn	...	4	4	...
Friquix	...	I	I	...
Sauce	...	2	2	...
Cooking Fat	...	I	I	...
Gelatine	...	I	I	...
Cocoa	...	3	3	...
Junket	...	I	I	...
Strawberry flavouring	...	I	I	...
Black Pudding	...	I	I	...
Chocolate Cup	...	I	I	...
Mixed Spice	...	I	I	...
Beef Fluid	...	I	I	...
Sausage Meat	...	II	II	...
Lard	...	5	5	...
Ground Ginger	...	2	2	...
Mixweet	...	I	Broken	...
Salad Cream	...	I	I	...
Batter Flour	...	I	I	...
Egg Substitute Powder	...	2	2	...
Curry Powder	...	I	I	...
Semolina	...	2	2	...
Meat Paste	...	2	2	...
Piccalilli	...	I	I	...
Butter	...	3	3	...
Sponge Mixture	...	3	3	...
Dessicated Soup	...	2	2	...
Ice Cream	...	2	2	...
Skimmed Dried Milk	...	2	2	...
Saccharine	...	I	I	...
Food Flavouring Beverage	...	I	I	...
Pineapple Flavoured „	...	I	I	...
Cake Flour	...	2	* 2	...
Lemon Flavouring	...	2	2	...
Citrate of Magnesia	...	I	I	...
Vanilla Flavouring	...	I	I	...

Article	Informal	Formal	Genuine	Not Genuine
Dried Egg	...	2	2	...
Camphorated Oil	...	I	I	...
Stomach Powder	...	I	I	...
Pickling Spice	...	I	I	...
Golden Raising Powder	...	I	I	...
Sultanas	...	I	I	...
"Savouree"	...	I	I	...
Liver Sausage	...	I	I	...
Mustard	...	I	I	...
Tea	...	I	I	...
Syrup of Figs	...	I	I	...
Biscuit Mixture	...	I	I	...
Boiled Sweets	...	I	I	...
Tripe	...	I	I	...
Semolina Pudding Mixture	...	I	I	...
Celery Soup	...	I	I	...
Sunny Spread	...	I	I	...
Soya Flour	...	I	I	...
Meat Extract	...	I	I	...
Brown Sugar	...	I	I	...
Margarine	...	I	I	...
Lung Syrup	...	I	I	...

The one sample shown to be not genuine, was found 11% deficient in fat, and it was resolved that a letter of warning be sent.

Legal Proceedings.

One prosecution, as shown below, was undertaken during the year :—

Section 13—Food & Drugs Act, 1938.

(a) Failure to maintain cleanliness in regard to a room where food intended for sale was stored. Fined £2.

(b) Failure to maintain cleanliness in respect of articles and utensils used in the preparation of food. A fine of £2 was imposed.

VERMINOUS PREMISES.

Number of houses found to be infested	...	14
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(This does not include houses on the Council's estates which are supervised by the Council's Housing Department as a matter of routine).

Methods employed for freeing infested houses from bed-bugs :

The spraying of all rooms and effects with a vermicide containing D.D.T.

Methods employed for ensuring the belongings of prospective tenants of Council Houses are free from vermin :—

The belongings of prospective Council House tenants are inspected by the members of the Public Health staff and the circumstances disclosed reported upon to the Housing Department. If vermin are found to be present, the tenant is not accepted until conditions have been remedied. The tenant is usually loaned the requisite plant and vermicide by the Public Health Department.

The disinfestation of private houses is carried out by the owners or occupiers under the supervision of the Local Authority, whilst disinfestation of Council houses is undertaken by the Housing Department of the Local Authority.

CLOSET ACCOMMODATION.

Number of cesspools now existing in the district	519
Number of pail closets and privies ...	683

SECTION D.

HOUSING.

1. INSPECTION OF DWELLING HOUSES.

(1) (a) Total number of dwelling-houses inspected for defects (under Public Health or Housing Acts) ...	559
(b) Number of inspections made for that purpose ...	1871
(2) (a) Number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under Housing Consolidation Regulations, 1925 ...	Nil
(b) Number of inspections made for that purpose ...	Nil
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	Nil
(4) Number of dwelling-houses (exclusive of those referred to under the previous sub-head) found not to be in all respects fit for human habitation	455

2. REMEDY OF DEFECTS DURING THE YEAR WITHOUT SERVICE OF FORMAL NOTICES.

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers	473
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3. ACTION UNDER STATUTORY POWERS.

(A) *Proceedings under Section 9, 10 and 16 of the Housing Act, 1936:—*

(1) Number of dwelling-houses in respect of which notices were served requiring repairs... ..	Nil
(2) Number of dwelling-houses which were rendered fit after service of formal notices	Nil
(3) Number of dwelling-houses in respect of which notices were served under the Council's Housing Byelaws	6
(4) Number of dwelling-houses rendered fit as a result thereof... ..	2

(B) *Proceedings under Public Health Acts.*

(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied	... ..	78
(2) Number of dwelling-houses in which defects were remedied after service of formal notices:—		
(a) By Owners	... ..	40
(b) By Local Authority in default of Owners	...	Nil

(C) *Proceedings under Sections 11 and 13 of the Housing Act, 1936.*

(1) Number of houses in respect of which Demolition Orders were made	... ..	Nil
(2) Number of dwelling-houses demolished in pursuance of Demolition Orders	... ..	Nil
(3) Number of dwelling-houses in respect of which undertakings not to re-let have been accepted	...	Nil
(4) Number of houses in respect of which undertakings to render fit were accepted	... ..	Nil

(D) *Proceedings under Section 12 of the Housing Act, 1936.*

(1) Number of separate tenements or underground rooms in respect of which Closing Orders were made		Nil
(2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room having been rendered fit	... ..	Nil

I. FACTORIES AND WORKPLACES.

Inspections made by Sanitary Inspectors.

Premises I	Number of		
	Inspec- tions 2	Written Notices 3	Occupiers Prosecuted 4
Factories with Mechanical power	33	3	Nil
Factories without " "	3	Nil	Nil
Other Premises under the Act (including works of building and engineering construction but not including outworkers premises) ...	Nil	Nil	Nil
	36	3	Nil

2. DEFECTS FOUND

in Factories and Workplaces.

Particulars I	Number of Defects			Number of Offences of which Prose- cutions were instituted 5
	Found 2	Remedied 3	Referred to H.M. Inspector 4	
Want of cleanliness (S. 1) ...	—	—	—	—
Overcrowding (S. 2) ...	—	—	—	—
Unreasonable temperature (S. 3)	—	—	—	—
Inadequate ventilation (S. 4) ...	—	—	—	—
Ineffective drainage of floors (S.6)	—	—	—	—
Sanitary Conveniences (S. 7) :—				
Insufficient ...	3	3	—	—
Unsuitable or defective	—	—	—	—
Not separate for sexes	—	—	—	—
Other offences ...				
(Not including offences relating to Home Work or offences under the Sections mentioned in the Schedule to the Ministry of Health (Factories and Workshops transfer of Powers) Order, 1921, re-enacted in the Third Schedule of the Factories Act, 1937)	—	—	—	—
Total ...	3	3	—	—

LIST OF WORKS EXECUTED.

Dampness remedied	69
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Rooms :

Stripped, cleansed and redecorated	131
Plaster repaired	201
Floors repaired	57
Windows repaired, renewed or extended	...	...	70
Stoves repaired or renewed ...	...	...	45
Doors, locks, &c.	...	...	25
Vermin disinfested	...	...	41
Ventilated food stores and repairs	...	...	3

STAIRCASES :

Stripped and redecorated	...	...	2
Handrails fixed ...	...	...	1
Lighting provided	...	...	—
Repairs	...	...	1

SANITARY FITMENTS :

New sinks, &c. ...	...	...	1
Coppers provided or repaired	...	...	22
Pail and earth closets abolished or renewed	...	...	2
W.C.'s provided or substituted	...	...	1
W.C.'s repaired or renewed ...	...	...	47
New pedestals	...	...	8
Waste-water pipes repaired or renewed...	...	...	26
Soil or vent pipes repaired or renewed ...	...	...	2
New cesspools ...	...	...	2

DRAINS :

Unstopped or repaired	...	...	62
New drains	...	...	2
Gullies repaired or renewed ...	...	...	5
Inspection Chambers repaired or provided	...	...	9

WATER SUPPLIES AND FITTINGS :

Wells abolished ...	...	...	Nil
New services	...	...	6
Repaired or renewed	...	...	12

EXTERNAL WORKS:

Roofs repaired or renewed	...	...	...	156
Gutters and rainwater pipes repaired or renewed	...	...	...	59
Walls repaired or renewed	...	...	...	8
Yards repaired or paved	...	...	...	4
Dustbins provided	...	...	...	52
Accumulations removed	...	...	...	8
Miscellaneous	...	...	...	21

HOUSING ACT, 1936—OVERCROWDING.

During the year 175 investigations were made from which it was ascertained that 119 cases of overcrowding occurred. These were referred to the Housing Department for Council Houses when available, and although only one of these cases was relieved by action by the Local Authority, it is reasonable to assume that with the advent of new houses in 1946, a much greater proportion of overcrowding will be relieved by the Local Authority.

RATS AND MICE DESTRUCTION ACT, 1919.

THE INFESTATION ORDER, 1943.

No statutory procedure was resorted to during the year. Where infestations are known to exist the owner or occupier is contacted and an arrangement entered into whereby (1) he either engages the services of a rat-catcher or (2) a supply of rat food is furnished on the understanding that, at the appropriate moment, the department is informed, after which a supply of poisoned bait is taken to the premises by the district inspector and the procedure followed up until the rats are exterminated. No charge is made for these services.

SHOP ACTS. 1912—1938

Legislation in Force.

The following Acts and Orders are in operation within the Thurrock Urban District.

The Shops Act, 1912.

The Shops Act, 1913.

The Shops (Hours of Closing) Act, 1928.

The Shops Act, 1934.

The Shops Act, 1936 (Libraries).

The Retail Meat Dealers Shops (Sunday Closing) Act, 1936.

The Shops (Sunday Trading Restrictions) Act, 1936.

The Young Persons (Employment) Act, 1938.

Closing and Half-Holiday Orders.

1. The Grays Thurrock Weekly Half-Holiday (No. 1) Order, 1913.
2. The Grays Thurrock Weekly Half-Holiday (No. 2) Order, 1913.
3. The Grays Thurrock Extension of Weekly Half-Holiday (No. 1) Order, 1913.
4. The Stanford-le-Hope Weekly Half-Holiday Order, 1913.
5. The Stanford-le-Hope Extension of Weekly Half-Holiday (No. 1) Order, 1913.
6. The County of Essex (Shops Exemption) (No. 5) Order, 1913.
7. The County of Essex (Shops Exemption) (No. 7) Order, 1914.
8. The County of Essex (Shops Exemption) (No. 8) Order, 1914.
9. The South Ockendon Weekly Half-Holiday (No. 2) Order, 1914.
10. The South Ockendon Weekly Half-Holiday Order, 1914.
11. The County of Essex (Shops Exemption) (No. 7) Order, 1914.
12. The Grays Thurrock Weekly Half-Holiday (No. 1) Order, 1915.
13. The Tilbury Weekly Half-Holiday (No. 1) Order, 1917.
14. The Tilbury Hairdressers Closing Order, 1917.

15. The Grays Thurrock Closing Order, 1917.
16. The Grays Thurrock Closing Order, 1922.
17. The West Thurrock Tobacconists (Hours of Closing Order), 1929.
18. The Lambourne and Stifford Tobacconists (Hours of Closing Order), 1929.
19. The Little Thurrock Tobacconists (Hours of Closing Order), 1930.
20. The Thurrock Urban District Shops (Sunday Trading Restrictions) Act, 1936, Order No. 1.

L. CULLISS,
Chief Sanitary Inspector.

*Section F.*PREVALENCE OF, AND CONTROL OVER, INFECTIOUS
AND OTHER DISEASES.

NOTIFIABLE DISEASES.

DISEASES		Notified	Hospital	Deaths
Typhoid	...	1	1	—
Scarlet Fever	...	84 2*	49 2*	—
Diphtheria	...	20 (1)	20 (1)	—
Puerperal Fever	...	4	3	—
Pneumonia	...	82	63	—
Malaria	...	4 1*	2 1*	—
Dysentery	...	22	18	—
Erysipelas	...	6	4	—
Cerebro-spinal Fever	...	3 (1)	2 (1)	—
Ophthalmia Neonatorum		1	1	—
Pemphigus Neonatorum		4	2	—
Whooping Cough	...	112	3	—
Measles	...	652 1*	1 1*	—
Poleomyelitis	...	2 1*	2 1*	—

Figures marked () indicated diagnosis not confirmed.

„ „ * „ Service patients.

AGE GROUPS, 1945.

DISEASE	Under 1 year	1-2 yrs.	2-3 yrs.	3-4 yrs.	4-5 yrs.	5-10 yrs.	10-15 yrs.	15-20 yrs.	20-35 yrs.	35-45 yrs.	45-65 yrs.	65 yrs. up.	Total
Scarlet Fever ...	1	7	8	6	14	31	14	5	2	...	...	...	88
Diphtheria ...	1	3	...	2	2	5	1	2	2	...	...	...	18
Typhoid Fever ...	...	1	...	...	...	...	...	...	...	...	...	...	1
Puerperal Pyrexia ...	...	...	...	...	...	...	...	1	1	...	...	...	2
Puerperal Fever ...	...	...	...	...	...	...	...	...	2	...	...	...	2
Pneumonia ...	17	8	3	4	4	9	5	1	16	9	9	3	88
Malaria ...	...	...	...	...	...	...	...	...	3	2	...	...	5
Dysentery ...	1	...	1	...	...	...	2	4	10	3	1	2	24
Erysipelas ...	...	...	...	...	...	...	...	...	1	1	4	...	6
Cerebro-spinal Fever ...	...	...	(1)	...	1	...	...	...	...	...	...	...	2
Ophthalmia Neonatorum ...	2	...	...	...	...	...	...	...	...	...	...	...	2
Pemphigus Neonatorum ...	3	...	...	...	...	...	...	...	...	...	...	...	3
Whooping Cough ...	14	34	14	14	18	18	2	1	...	...	...	...	115
Measles ...	25	123	102	71	106	118	10	1	4	...	...	...	560
Poliomyelitis ...	...	...	1	...	...	...	...	...	1	...	...	...	2

Figures marked () indicate diagnosis not confirmed.

Diphtheria Immunisation Clinics :

Sessions held 71

Number of children treated between 1st Jan.
and 31st Dec., 1945 4,175

Supplies of A.P.T. are obtained from the Ministry of Health's laboratory, London Hospital.

No use has been made of measles serum for prophylaxis or attenuation.

Public Health (Prevention of Tuberculosis) Regulations, 1925.

Public Health Act, 1936, Section 172.

No action was taken under the above headings.

TUBERCULOSIS.

NEW CASES AND MORTALITY.

Age periods	New Cases				Deaths			
	Respiratory		Non-Resp'ry		Respiratory		Non-Resp'ry	
	M.	F.	M.	F.	M.	F.	M.	F.
Under 1	...	...	...	...	...	...	...	...
1- 5 years	...	...	3	3	...	...	2	...
5-15 "	2	...	...	1	...	...	...	1
15-25 "	5	16	4	5	2	6	...	...
25-35 "	5	6	1	...	2	4	...	...
35-45 "	5	2	3	1	1	2	...	...
45-55 "	6	1	...	...	1	2	...	...
55-65 "	5	...	...	...	...	...	...	...
65 " }	1	...	...	...	...	...	...	...
upwards }								
Totals	29	25	11	10	6	14	2	1

